

★
The 11 Copy.

WCCF 77

PUT A MACRO IN YOUR MICRO!



TIMESHARING FOR A MICRO

Imagine playing Startrek to kill time while you wait for your computer to print out a complicated listing—but using the same computer.

Hardware limitations of the 8080 have made micro-computer timesharing impractical for the personal computer enthusiast. The AM-100™ 16-bit microprocessor set puts at your command a system which easily accepts multi-tasking from a multiple user structure. In addition the AM-100™ system lets you control priorities and allocate memory requirements for each job activated. There is even a security system to prevent unauthorized access to the data files (a Macro Computer?).

- Teachers—have each student at a terminal at the same time running a learning program. Monitor the progress on your master terminal.
- Computer Stores/Amusement Parks—set up a game bank with one computer and eight terminals. Have different games on each screen.
- Businessmen—put a terminal on the desk of your bookkeeper, stock clerk and design engineer. Perform the daily accounting, inventory control and design problems at the same time. Hook a terminal in the shop and audit production schedules with the processor's real-time clock.

WESTERN DIGITAL MICROPROCESSOR

The AM-100 is based on Western Digital's advanced WD-16 microprocessor chip set (the same one used to create the DEC LSI-11). It has been re-microprogrammed to give a more flexible macro instruction set while still maintaining the general architecture and source code format of the popular PDP-11 series.

S-100 BUS COMPATIBILITY

The 16-bit processor system interfaces to the 8-bit S-100 bus by multiplexing through 70-plus TTL logic chips. This multiplexing is totally transparent to the programmer.

ALPHA BASIC COMPILER

The BASIC language processor implemented is a compiler as opposed to the more popular interpreters. It reads the source code statements and generates a compacted and fully resolved object code program. The object code program is then executed by a special runtime package which is reentrant and may be shared by several users at once. The source code need not be present during this execution thereby reducing memory requirements.

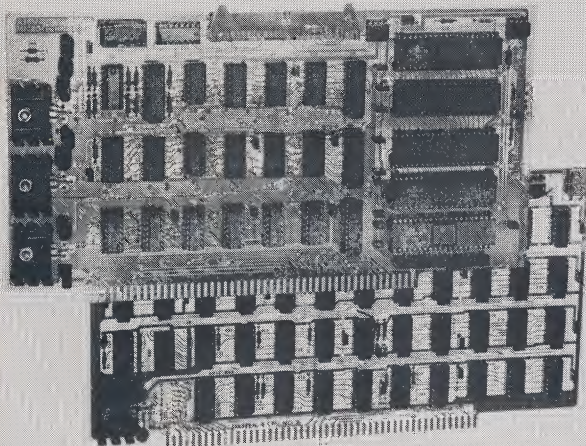
PROGRAM DEVELOPMENT SYSTEM

- Multi-pass assembler supports full nested macros and conditional assembly
- Assembler supports global inter-program symbols with a linking editor to create a concatenated runnable program file
- Assembler and operating system both support segmentation so that large programs may be run as a series of smaller segments that overlay each other
- Debugging program operates symbolically so that octal or hex conversions are not necessary
- Text editor is free-form string oriented with commands to manipulate data in both the line and character modes
- Letter writing text formatter allows automatic margin and paragraph calculations for formatted documentation

Write or call us for further information and details:

ALPHA
MICRO **SYSTEMS**™

17875N Sky Park North
Irvine, California 92714
Phone: (714) 957-1404



Introducing the AM-100™ by Alpha Microsystems: A 16-bit microprocessor CPU (2-card set) that replaces the 8080 microprocessor in your S-100 bus type computer.

- Eight 16-bit registers
- Multi-level DMA and vectored interrupt system
- Real-time clock on the CPU board
- Hardware supported totally relocatable object code
- Multi-user multi-tasking timeshared operating system
- Multi-user structured file system with passwords
- Multiple pass macro level assembler and linking loader
- Floppy disk file management system and utilities
- Up to 10 times the throughput of an 8080 system
- Fully supports most S-100 peripherals without modification
- ALPHA BASIC™ extended compiler and run system (not an interpreter)
- Free-form text editor and letter-writing text formatter
- System generation program to create custom operating system monitors
- Completely device independent with logical file I/O calls

ALPHA MICROSYSTEMS
17875-N SKY PARK NORTH
IRVINE, CA 92714
(714) 957-1404

AM-100	16 Bit Microprocessor W/Software (S-100 Bus Compatible) AMOS TM Operating System AlphaBasic TM Utilities	\$1495.00
AM-200	Floppy Disk Controller	\$695.00
AM-201	AM200 W/Cabinet Power Supply Will Support Persci, Calcomp, Shuggart Floppy Drives	\$995.00

DEALERS

BYTESHOP OF ARIZONA
813 N. Scottsdale Road
Tempe, AZ 85282
(602) 894-1129

BYTESHOP OF LAWDALE
16508 Hawthorne Boulevard
Lawndale, CA 90260
(213) 371-2421

BYTESHOP OF PASADENA
496 S. Lake
Pasadena, CA 91101
(213) 684-3311

BYTESHOP OF PALO ALTO
2227 El Camino Real
Palo Alto, CA 94306
(415) 327-8080

BYTESHOP OF SALT LAKE
261 S. State St.
Salt Lake City, UT 84120
(801) 355-1041

COMPUTER CENTER
8205 Ronson Road
San Diego, CA 92111
(714) 292-5302

THE COMPUTER HUT
1764 Blake St.
Denver, CO 80202
(303) 573-4895

COMPUTER MART OF BOSTON
1097 Lexington St.
Waltham, MA 02154
(617) 899-4540

COMPUTER MART OF N.J.
501 Route #27
Iselin, NJ 08830
(201) 283-0600

COMPUTER MART OF NEW YORK
118 Madison Avenue
New York, NY 10016
(212) 686-7923

DATA DOMAIN
111 S. College
Bloomington, IN 47401
(812) 334-3607

ELECTRONICS SPECIALTY CO.
4032 Bellaire Boulevard
Houston, TX 77025
(713) 665-0477

THE MICRO STORE
634 S. Central Expressway
Richardson, TX 75080
(214) 231-1096

COMPUTER CENTER
1913 Harbor Boulevard
Costa Mesa, CA 92627
(714) 646-0221

REAL OREGON COMPUTER CO.
205 West 10th Avenue
Eugene, OR 97401
(503) 484-1040

TECH-MART
19590 Ventura Boulevard
Tarzana, CA 91356
(213) 344-0153

TRINTRONICS, LTD.
160 Elgin Street
Ottawa, ONT K2P 2C4

TRINTRONICS, LTD.
186 Queen St. W.
Toronto, ONT MSV 1Z1